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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/463,643	05/01/2000	SHUJI NAKAMURA	NICHIA-00700	6608
23117	7590 03/30/2005	EXAMINER		INER
NIXON & VANDERHYE, PC			JACKSON JR, JEROME	
1100 N GLEI 8TH FLOOR	1100 N GLEBE ROAD 8TH FLOOR		ART UNIT	PAPER NUMBER
	V, VA 22201-4714	2815		
			DATE MAILED: 03/30/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/463,643	NAKAMURA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jerome Jackson Jr.	2815				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a reply be ting ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	mely filed  ys will be considered timely.  the mailing date of this communication.  ED (35 U.S.C. § 133).				
Status						
<ol> <li>Responsive to communication(s) filed on <u>13 January 2005</u>.</li> <li>This action is FINAL. 2b)  This action is non-final.</li> <li>Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213.</li> </ol>						
Disposition of Claims						
4) Claim(s) 62-81 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 62-81 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	cepted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some color None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal ( 6) Other:					

Application/Control Number: 09/463,643

**Art Unit: 2815** 

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 62-81 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The recitations in the independent claims "within 1x10E17/cm3" is vague and indefinite. Does applicant intend "less than" rather than "within"?

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 62-69, insofar as definite, are rejected under 35 U.S.C. 102(e) as being anticipated by Itaya, of record.

The previous rejection still applies. The new limitations "an active layer where electrons and holes combine" does not structurally distinguish over the prior art Itaya as his devices, leds, also comprise an active layer where holes and electrons combine.

The superlattice layer 506 comprises multiple layers of InGaN wells and GaN barriers of which a portion of the layers may be labeled a "third nitride layer" and another portion labeled an "active layer" where electrons and holes are combined.

Claims 70-81, insofar as definite, are rejected under 35 U.S.C. 103(a) as being unpatentable over Itaya in view of Ng, of record.

The previous rejection with the above comments applies. The new claims do not structurally distinguish over the applied art as the doping concentrations and

thicknesses are considered routine in view of Ng for supplying carriers for light emission.

Applicant's arguments filed 1/13/05 have been fully considered but they are not persuasive. Contrary to applicant's arguments a "separate and distinct active layer" is not recited in the claims and therefor does not structurally distinguish over the applied art where multiple layers comprise or consist of both an active layer and superlattice layer or layers, the claims are broader than applicant argues.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Jackson Jr. whose telephone number is 571 272 1730. The examiner can normally be reached on t-th 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 571 272 1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JEROME JACKSON PRIMARY EXAMINER